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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/869,640

07/02/2001

Robert C. Penner

4199-5

5680

7590

07/12/2006

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EXAMINER

BAYARD, EMMANUEL

ART UNIT

PAPER NUMBER

2611

DATE MAILED: 07/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

"Supplemental"

**Notice of Allowability**

Application No.

09/869,640

Examiner

Emmanuel Bayard

Applicant(s)

PENNER, ROBERT C.

Art Unit

2611

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed on 4/18/05.
2. ☒ The allowed claim(s) is/are 1-65.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|   | 9. <input type="checkbox"/> Other _____.   |

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Kuborn on 7/6/06.

The application has been amended as follows: in page 2, line 1 of the specification after of "w lets" has been replaced with ---wavelets---.

In page 2, line 1 of the specification after effectively "applie" has been replaced with ---applied in---.

In page 3, line 1 of the specification after calculation --of-- has been inserted.

In page 3, line 1 of the specification after frequency "dat" has been replaced with ---data in---.

In page 4, line 1 of the specification before in ""hord has been replaced with ---chord---.

In page 4, line 1 of the specification after labeled "th" has been replaced with ---with---.

In page 5, line 1 of the specification before of "fina oint" has been replaced with - --final point---.

In page 5, line 1 of the specification before arrow "ecial" has been replaced with -  
--special---.

In page 6, line 1 of the specification after given "ta" has been replaced with ---  
data--.

In page 6, line 1 of the specification after of "tl arey" has been replaced with ---the  
Farey---.

In page 7, line 1 of the specification after figure "he" has been replaced with --3a  
the--.

In page 7, line 1 of the specification after given --by-- has been inserted.

In page 8, line 1 of the specification after wavelet "c icients" has been replaced  
with ---coefficients---.

In page 8, line 1 of the specification after called "th rithmetic" has been replaced  
with ---the arithmetic---.

In page 9, line 1 of the specification after "=" ---Va--- has been inserted.

In page 9, line 1 of the specification after alpha --beta-- has been inserted.

In page 10, line 1 of the specification after coefficients "require n" has been  
replaced with ---required in---.

In page 10, line 1 of the specification after and "giv" has been replaced with ---  
given---.

In page 11, line 1 of the specification has been replaced with ---the algorithm  
and computer coding for bottom arrows is therefore derived without---.

In page 12, line 1 of the specification after are "e icit" has been replaced with ---explicit---.

In page 12, line 1 of the specification after of "e1" has been replaced with ---Eu A---.

In page 13, line 1 of the specification after using "I it" has been replaced with ---input---.

In page 13, line 1 of the specification after squares ".s" has been replaced with ---fits----.

In page 14, line 1 of the specification after determined "b emanding" has been replaced with ---by demanding---.

In page 14, line 1 of the specification after the "thr ngles" has been replaced with ---three angles---.

In page 15, line 1 of the specification after case "e" has been replaced with ---one---.

In page 15, line 1 of the specification after Fourier "e nsion" has been replaced with ---expansion---.

In page 16, line 1 of the specification after is "establ ed" has been replaced with --established---.

In page 16, line 1 of the specification after gener "w h" has been replaced with ---which---.

In page 17, line 1 of the specification before passes "proce re" has been replaced with ---procedure---.

In page 17, line 1 of the specification before over “op” has been replaced with ---loop---.

In page 19, line 1 of the specification before parameter “con l” has been replaced with ---control---.

In page 19, line 1 of the specification after scale “w re” has been replaced with --where---.

In page 20, line 1 of the specification has been replaced with ---recursions, as well as further possible subrecursions derived from them, are indepen- ---.

In page 21, line 1 of the specification after basis “eler ts” has been replaced with ---elements---.

In page 21, line 1 of the specification after for --the-- has inserted.

In page 22, line 1 of the specification has been replaced with ---Turning now to multi-dimensional input/output data, suppose that there are  $R \geq 1$ ---.

In page 23, line 1 of the specification after of “hype olic” has been replaced with ---hyperbolic---.

In page 23, line 1 of the specification before developed “Th eas” has been replaced with ---The ideas---.

In page 24, line 1 of the specification after upper “h” has been replaced with ---half--.

In page 24, line 1 of the specification after of ---the---has been inserted.

In page 25, line 1 of the specification after the “met l” has been replaced with ---method---.

In page 25, line 1 of the specification before data "in" has been replaced with ---  
input---

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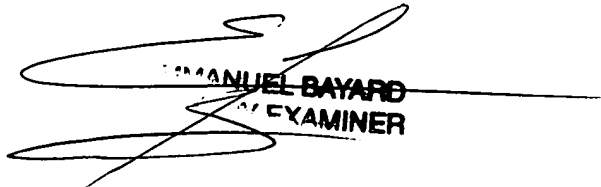
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM) Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571 272 2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Emmanuel Bayard  
Primary Examiner  
Art Unit 2611

7/5/06



EMMANUEL BAYARD  
EXAMINER